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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **HARVEY, Paul, R.** [GB/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **KRUGER, Luc, R.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **SLEGT, Sander** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agents: **COHEN, Julius, S.** et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

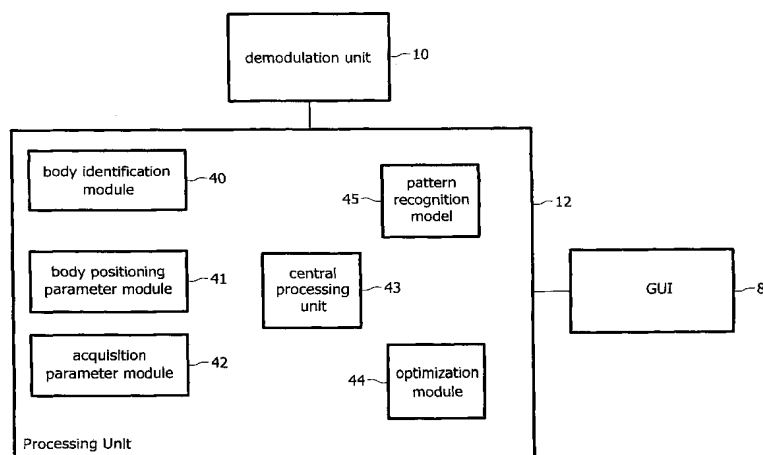
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(54) Title: ALL IN ONE PLAN SCAN IMAGING FOR OPTIMIZATION OF ACQUISITION PARAMETERS



(57) Abstract: The present invention provides a magnetic resonance imaging system making use of low resolution, whole-body plan scan image of a body. The whole-body plan scan image is exploited to gather a plurality of individual information of a body that is essential for an optimization of acquisition parameter for acquisition of a high resolution and high quality image of a region of interest of the body. Moreover, the whole-body plan scan image is used in order to facilitate a determination and a selection of a region of interest to be performed by an operator. Additionally, the MRI provides effective means for autonomously identifying specific body parts or even organs of a patient. Providing the entire information that can be extracted from the whole-body plan scan image to the operator effectively simplifies the workflow of the operator in an intuitive way. Preferably, during acquisition of the low resolution whole-body plan scan image, necessary calibration parameters for acquisition of the final high resolution image are obtained.



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